

6JC6

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE
FRAME-GRID CONSTRUCTION

For Use as an IF-Amplifier Tube in TV
Receivers. No External Shield Required.

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC). 6.3 ± 0.6 volts
Current at heater volts = 6.3 0.300 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode. 200 max. volts

Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances:^b

Grid No.1 to plate. 0.019 max. pf

Grid No.1 to cathode, grid No.3 &
internal shield, grid No.2,
and heater. 8.2 pf

Plate to cathode, grid No.3 &
internal shield, grid No.2,
and heater. 3.0 pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 125 volts

Grid No.3 *Connected to cathode at socket*

Grid-No.2 Supply Voltage. 125 volts

Cathode Resistor. 56 ohms

Plate Resistance (Approx.). 0.18 megohm

Transconductance. 15000 μ mhos

Plate Current 13 ma

Grid-No.2 Current 3.2 ma

Grid-No.1 Voltage (Approx.) for
plate μ a = 100. -3 volts

Mechanical:

Operating Position. Any

Type of Cathode Coated Unipotential

Maximum Overall Length. 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip). . . 1-9/16" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline See *General Section*

Bulb. T6-1/2

Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)



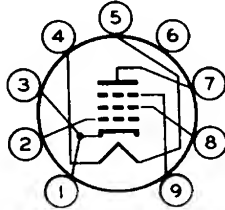
RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA I
4-63

6JC6

Basing Designation for BOTTOM VIEW. 9PM

Pin 1—Cathode
Pin 2—Grid No.1
Pin 3—Cathode
Pin 4—Heater
Pin 5—Heater
Pin 6—No Internal
Connection



Pin 7—Plate
Pin 8—Grid No.2
Pin 9—Grid No.3,
Internal
Shield

AMPLIFIER — CLASS A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 330 max. volts
GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE:
Positive value. 0 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . 330 max. volts
GRID-No.2 VOLTAGE See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value 0 max. volts
GRID-No.2 INPUT:
For grid-No.2 voltages up to
165 volts 0.6 max. watt
For grid-No.2 voltages between
165 and 330 volts See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section
PLATE DISSIPATION 2.5 max. watts

Maximum Circuit Values:

Grid-No.1—Circuit Resistance:
For fixed-bias operation. 0.25 max. megohm
For cathode-bias operation. 1 max. megohm

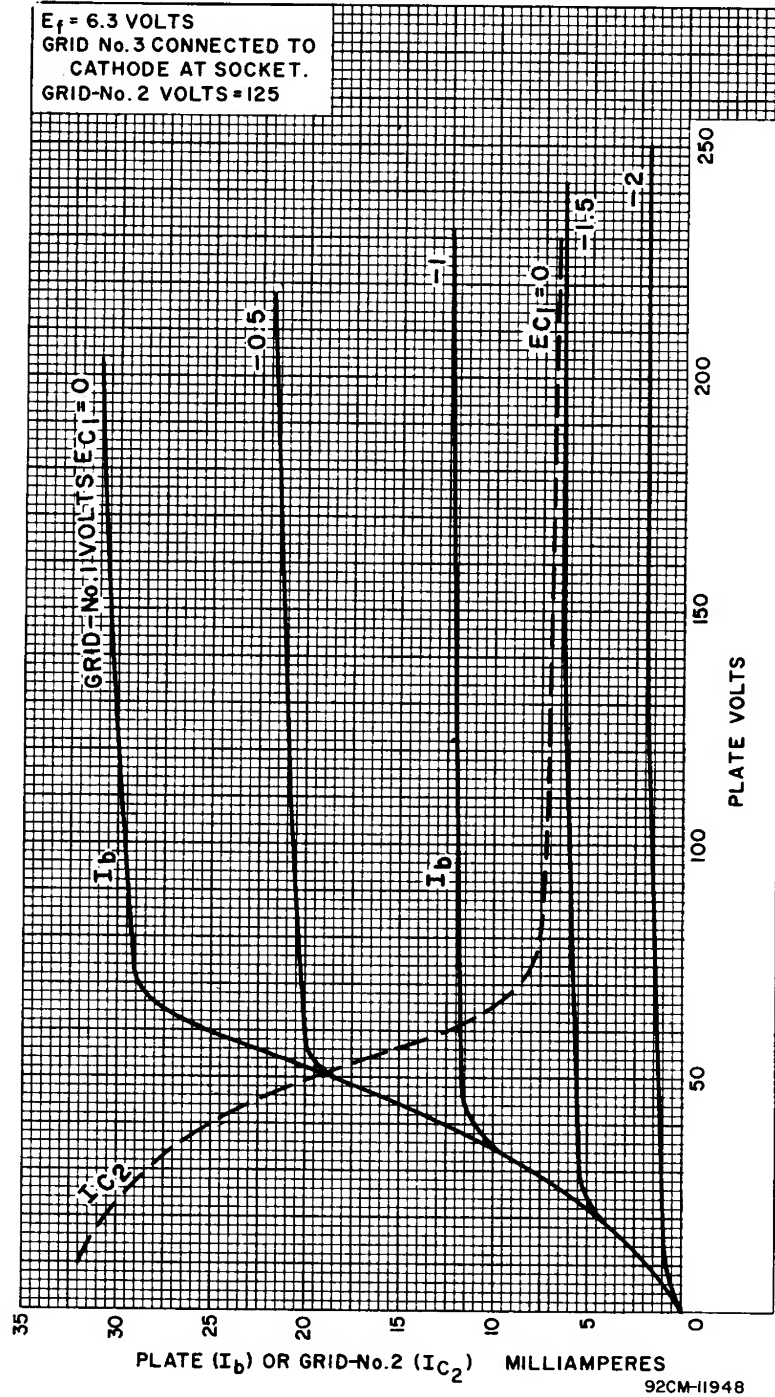
^a The dc component must not exceed 100 volts.

^b Without external shield.



6JC6

AVERAGE CHARACTERISTICS

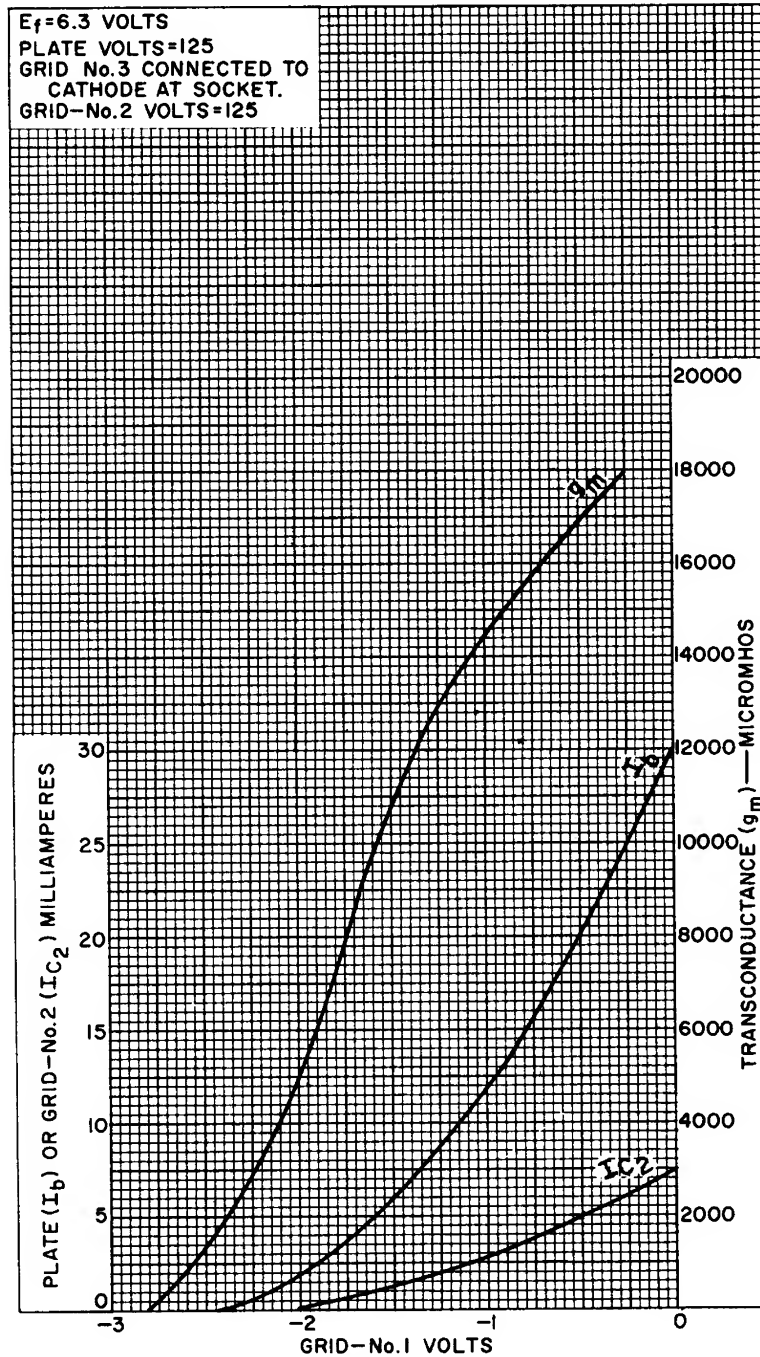


RADIO CORPORATION OF AMERICA
 Electron Tube Division

DATA 2
 4-63

6JC6

AVERAGE CHARACTERISTICS



92CM-11949

RADIO CORPORATION OF AMERICA
 Electron Tube Division
 Harrison, N. J.

